

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET

(pursuant to NAC 445A.236)

Permittee Name: City of Henderson
200 Athens Avenue
Henderson, Nevada 89009-5050

Permit Number: NEV2002518

Description of Discharge

Location: Wildhorse Golf Club Golf Course
2100 West Warm Springs Road
Henderson, Clark County, Nevada 89014

Latitude: 36E02'50"N Longitude: 115E04'43"W
Section 5; T. 22S., R. 62E. MDB&M

Characteristics: The Wildhorse Golf Club Golf Course is irrigated with tertiary treated, denitrified (Total N-10 mg/L), disinfected effluent supplied by the City of Henderson (COH) Water Reclamation Facility (WRF)(Permit #NEV80003). Effluent may be discharged for use and storage into either pond # 4 or # 11. Five off site irrigation wells are available to supplement irrigation for emergency use only; these discharges would be into lakes # 1, 2, and 11 via 12" lines with air gaps on each discharge line to the lakes. There are two pump stations on the golf course; one pumps from lake #4 and the other from lake # 11. The effluent is applied via spray irrigation to the golf course turf grasses on tees, greens and fairways and via a drip system on landscape materials. There is a separate parallel potable water irrigation system that is installed for manual watering (syringing) of greens. All reuse activities are to be conducted in accordance with the approved Effluent Management Plan, and permit conditions.

All reuse golf course lakes and water features are lined with synthetic liners with soil covers. Ponds 1, 2, 3, 4, and 11 are used for irrigation and effluent storage; the water is re-circulated so it flows back through the ponds 1 - 4. Other water features and small ponds are unlined and are separate from and isolated from the reuse "waters" and are configured into two "streams" serving as water hazards, water features/wetlands and small linear ponds. Two of seven of these constructed features intercept shallow groundwater seasonally and serve as stormwater drainage routes to drop inlets upon exiting the property. Water in these linear water features is re-circulated to produce a flowing "stream" effect.

Flow: 1.25 MGD 30-Day Average Flow 1.75 MGD Daily Maximum Flow
Water reuse is limited to 660 acre feet per year

Effluent Limitations:

Fecal Coliform: 2.2 CFU/MPN/100 ml 30 day average, 23 CFU/MPN/100 ml daily max.

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General: Previously and historically the Wildhorse Golf Course, under previous ownerships and with other facility names, was supplied with partially denitrified (12-16 mg/l Total nitrogen) treated effluent (reuse water) for irrigation by the Clark County Sanitation District (now Clark County Water Reclamation District) since about 1960. Historically several effluent reuse agreements with CCSD have been in place. In the past, the golf course was irrigated with groundwater and with reuse water. The City of Henderson purchased the golf course in 2006, and now uses reuse water solely, with groundwater available for emergency contingencies. Many upgrades have been undertaken including the relining of the large irrigation storage/pumping lake, with other improvements planned for the coming year or two. The Revised Effluent Management Plan will update all infrastructure and other management changes and/or improvements.

Receiving Water Characteristics: Depth to groundwater in the area varies from the shallow aquifer at 6 to 20 feet based on three former onsite supply wells. Shallow groundwater quality is declining due to salinity and leaching of soluble constituents from local area irrigation infiltration. TDS averages 6480 to 6970 ppm whereas the COH WRF effluent is about 1200 ppm TDS. The three Wildhorse onsite wells average 900 to 1800 ppm TDS from depths ranging from 600 to 900 feet. No adverse effects are expected to occur as a result of this effluent reuse.

Procedures for Public Comment:

The Notice of the Division's intent to issue a permit authorizing the facility to continue to discharge to the groundwater of the State of Nevada subject to the conditions contained within the permit, is being sent to the **Henderson Home News** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of 30 days following the date of the public notice. The comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator or any interested agency, person or group of persons.

The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted.

Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determined to be appropriate. All public hearings must be conducted to accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

Proposed Determination:

The Division has made the tentative determination to reissue the proposed permit for a period of five (5) years.

Schedule of Compliance and Special Conditions

1. A final revised Effluent Management Plan (EMP) shall be submitted to the Division within 60 days of permit issuance.

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*2. The Permittee shall provide the Division with the notification required in I.B. 10. **within 30 days of permit issuance.***

There are no special conditions.

All compliance deliverables shall be submitted to Mr. Nadir Sous, NDEP-LV, 1771 East Flamingo Road, Suite 121-A, Las Vegas, Nevada 89119, and a copy shall be sent to the Carson City NDEP office C/O Ms Diana Silsby, 901 South Stewart Street, Suite 4001, Carson City, NV 89701.

Rationale for Permit Requirements

Required parameters are monitored to ensure effluent reuse requirements are maintained NAC 445A.275, 445A.276, and that groundwaters of the State are protected.

Prepared by: Icyl C. Mulligan
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